

IN THE CLAIMS

1. (currently amended) A method for recovering platinum group elements comprising:

charging into a closed electric furnace and melting, together with flux components and a reducing agent, a platinum group element-containing substance including spent petrochemical type catalyst or spent vehicle exhaust gas purification catalyst to be processed and a copper source material containing copper oxide;

sinking molten metal of primarily metallic copper below a molten slag layer of primarily oxides; and

enriching the platinum group elements in the molten metal sunk below,

which method for recovering platinum group elements is characterized in that [[;]] the copper source material charged into the electric furnace is composed of granules of an average grain diameter of not less than 0.1 mm and not greater than 10 mm[[;]] and by the steps of:

ascertaining a copper content of molten slag in the furnace is ascertained by sampling and analyzing; and

discharging molten slag is discharged from the electric furnace when a copper content of the molten slag determined by said ascertaining step is ~~has been ascertained to be~~ 3.0 wt.% or less.

2. canceled

3. (original) A method for recovering platinum group elements according to claim 1, wherein the interior of the electric furnace is maintained at a pressure lower than atmospheric pressure from the melting of the charge material to the discharging of the molten slag.

4. (currently amended) A dry method for recovering platinum group elements comprising:

charging into a closed electric furnace and melting, together with flux components and a reducing agent, a platinum group element-containing substance to be processed and a copper source material containing copper oxide;

sinking molten metal of primarily metallic copper below a molten slag layer of primarily oxides;

enriching the platinum group elements in the molten metal sunk below;

separating the molten metal enriched in the platinum group elements from the molten slag and transferring it to a separate furnace while still in the molten state;

oxidizing the molten metal in the separate furnace to separate it into a slag layer of primarily oxides and a molten metal layer further enriched in the platinum group elements,

which method for recovering platinum group elements is characterized in that [[;]] the copper source material charged into the electric furnace is composed of granules of an average grain diameter of not less than 0.1 mm and not greater than 10 mm; and by the steps of:

ascertaining a copper content of molten slag in the furnace is ascertained by sampling and analyzing; and

discharging molten slag is discharged from the electric furnace when a copper content of the molten slag determined by said ascertaining step is ~~has been ascertained to be~~ 3.0 wt.% or less; and

the molten slag generated in the separate furnace is water-cooled from a high-temperature state to obtain a copper source material containing the aforesaid copper oxide composed of granules having a grain diameter of not less than 0.1 mm and not greater than 10 mm.

5-7. canceled